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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 08/558,544 | 11/16/1995 | SHUNPEI YAMAZAKI | 0756-1441 | 3919 |

31780 7590 12/03/2004

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POTOMAC FALLS, VA 20165

EXAMINER

KANG, DONGHEE

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| ART UNIT | PAPER NUMBER |
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2811

DATE MAILED: 12/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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|-------------------------------|------------------------|---------------------|--|
| Notice of Allowability | Application No. | Applicant(s) | |
| | 08/558,544 | YAMAZAKI, SHUNPEI | |
| | Examiner | Art Unit | |
| | Donghee Kang | 2811 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1-5-05.
2. ☒ The allowed claim(s) is/are 1-4, 6, 7, 10-18, 20, 21, 23-28, 30, 32 and 34-59.
3. ☒ The drawings filed on 16 November 1995 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☒ Certified copies of the priority documents have been received in Application No. 07/792,936.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |


DONGHEE KANG
PRIMARY EXAMINER

DETAILED ACTION

Oath/Declaration

1. The new Oath/Declaration were received on 09-24-04. These drawings are acceptable.

Allowable Subject Matter

2. Claims 1-4, 6-7, 10-18, 20-21, 23-28, 30, 32, & 34-59 are allowed.

The following is an examiner's statement of reasons for allowance:

Prior art reference, taken along or in combination, do not teach or render obvious that a device for sensing a light comprising a light sensor region and a semiconductor switch region adjacent to and operatively connected with said light sensor region over an insulating substrate having a block layer, wherein a semiconductor region of the light sensor region and an active region of the semiconductor switch comprises a same semiconductor layer,

wherein the semiconductor layer has a semi-amorphous structure formed on the blocking layer over the insulating substrate, and wherein a raman spectrum of the semi-amorphous structure exhibits a peak deviated from that which stands for single crystal for the semiconductor or

wherein the semiconductor layer has lattice distortion and the peak of laser raman spectrum of the semiconductor layer is shifted to a lower wavenumber than 520 cm^{-1} or

wherein a raman spectrum of the semiconductor layer exhibits a peak deviated from that which stands for a single crystal for the semiconductor and the semiconductor layer comprises hydrogen doped silicon or

wherein the semiconductor layer has a semi-amorphous structure comprising a mixture of amorphous and crystalline structure, in which a raman spectrum of the semiconductor film exhibits a peak deviated from that which stands of a single crystal of the semiconductor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion


3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghee Kang whose telephone number is 571-272-1656. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



dhk

**DONGHEE KANG
PRIMARY EXAMINER**